

Attorney Docket No. 1454.1658

N THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re F	Patent Applica	ition of:	
Mathä	ius DEJORI e	t al.	
Applic	cation No.: 10	/563,223	Group Art Unit:
Filed:	January 4, 2	006	Examiner:
For:	COMPUTE		UCT WITH PROGRAM CODE MEANSA ND ANALYSIS OF A REGULATOR GENETIC
		INFORMATION DISCLOS	SURE STATEMENT
PO B	nissioner for F ox 1450 ndria, VA 223		
Sir:			•
subje	led certain inf ct U.S. patent	ormation which the Examiner m	ovisions of 37 CFR § 1.56, there is hereby ay consider material to the examination of the the Examiner make this information of record bject application.
1.	Enclosures	accompanying this Information	Disclosure Statement are:
	1a. ⊠ 1b. ⊠	Form PTO-1449. Copy(ies) of IDS citation(s), ex Application publications.	cept for U.S. Patents and U.S. Patent
	1c.	• •	mmunication(s) from a foreign Patent Office
	1d. 🗌	English language translation (complete, Abstract or relevant portion(s)) age publications as indicated on the attached
	1e. 🛚		References (ATTACHMENT 1(e), hereto) for non-English publications.
	1f. ☐ 1g. 🛚	List of Copending Applications	
2. [2	☑ This Infor	mation Disclosure Statement is (Check either Item 2	
	2a.	Within three months of the dat	g date of a national application; e of entry of the national stage as set forth in
	2c. ⊠ 2d. □	§ 1.491 in an international app Before the mailing of a first Of Before the mailing of a first Of Continued Examination under	ice Action on the merits; or ice Action after the filing of a Request for

Serial No.: 10/563,223

3.	specified Action un	mation Disclosure Statement is filed under 37 CFR § 1.97(c) after the period in paragraph 2 above but before the mailing date of any of a Final Office der § 1.113, a Notice of Allowance under § 1.311 or an action that otherwise osecution in the application, AND
		(Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months)
	3a.	The § 1.97(e) Statement in Item 5 below is applicable; OR The \$180.00 fee set forth in 37 CFR § 1.17(p) is: enclosed.
		to be charged to Deposit Account No. 19-3935.
4.		mation Disclosure Statement is filed under 37 CFR § 1.97(d) after the period in paragraph 3 above, but on or before payment of the Issue Fee, AND The § 1.97(e) Statement in Item 5 below is applicable; AND The \$180.00 fee set forth in 37 CFR § 1.17(p) is:
		☐ enclosed.☐ to be charged to Deposit Account No. 19-3935.
5.	Statemen	t under § 1.97(e) (applicable if Item 3a or Item 4a is checked) (Check either Item 5a or 5b)
	5a. 🗌	In accordance with 37 CFR § 1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
	5b. 🗀	In accordance with 37 CFR § 1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
6.	This is a (1.53(b).	continuation/divisional/continuation-in-part application under 37 CFR §
		(Check appropriate Items 6a and/or 6b)
	6a. 🗌	Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No, filed on, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, have been omitted pursuant to 37 CFR § 1.98(d).
	6b. 🗌	Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No, filed on, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. § 120, are provided herewith.

Serial No.: 10/563,223

7.		This is	a Request for Continued Examination under 37 CFR § 1.114.
			(Check either Item 7a or 7b)
		7a. [7b. [The Issue Fee has not been paid. A Petition to Withdraw from issue under 37 CFR § 1.313(c) is filed concurrently herewith or has been granted. A Request for Continued Examination under 37 CFR § 1.114, after payment of the Issue Fee, is proper in accordance with 37 CFR § 1.114(a), respectively.
8.		This is	a Supplemental Information Disclosure Statement.
			(Check either Item 8a or 8b)
		8a. [1.97(f) supplements the Information Disclosure Statement filed on A bona fide attempt was made to comply with 37 CFR § 1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can
		8b. [be considered as if properly filed on This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR §§ 1.97 and 1.98, mailed
9.			dance with 37 CFR § 1.98, a concise explanation of what is presently bod to be the relevance of each non-English language publication is:
			(Check appropriate Items 9a, 9b, 9c and/or 9d)
		9a. ["English language version of the search report or action which indicates the degree of relevance found by the foreign office". (See MPEP § 609, Minimum Requirements for an Information Disclosure Statement, Part A(3): Concise Explanation of Relevance, 8th Ed., Rev. 2)
		9b. [9c. [attached Form PTO-1449 as having an English language translation (complete or relevant portion(s)) attached thereto.
		9d. [2	enclosed as Attachment 1(e), hereto.
10.	be se	e, mate earch r	ssion is made that the information cited in this Statement is, or is considered to rial to patentability nor a representation that a search has been made (other than eport(s) from a counterpart foreign application or a PCT International Search f submitted herewith). 37 CFR §§ 1.97(g) and (h).

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11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR § 1.17 for this Information Disclosure Statement to Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Dated: 7/6/06 1201 New York Ave., N.W., 7th Floor

Washington, D.C. 20005 Telephone: (202) 434-1500 Facsimile: (202) 434-1501

Registration No. 31,106



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NO. 1454.1658

Sheet 1 of 2 APPLICATION NO. 10/563,223

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

FIRST NAMED INVENTOR

Mathäus DEJORI

FILING DATE

January 4, 2006

G DATE GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	2003/0104463 A1	06/05/2003	SCHUERMANN et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	TRANSL/ YES	ATION NO	ABSTRACT
	AB	101 59 262 A1	06/18/2003	GERMANY		Х	

OTHER REFERE	OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
AC	M. STETTER et al., "Large-Scale Computational Modeling of Genetic Regulatory Networks", Artificial Intelligence Review, Volume 20, Numbers 1-2, Kluwer Academic Publishers, Netherlands, 2003, pp 1-22.			
AD	Finn V. JENSEN, "An Introduction to Bayesian Networks", UCL Press, London, 1996, pp. 1-31.			
AE	Eng-Juh YEOH et al., "Classification, Subtype Discovery, and Prediction of Outcome in Pediatric Acute Lymphoblastic Leukemia by Gene Expression Profiling", Cancer Cell, March 2002, Vol. 1, pp. 133-143.			
AF	D. HECKERMAN et al., "Learning Bayesian Networks: The Combination of Knowledge and Statistical Data", Machine Learning 20, 1995, pp. 197-243.			
AG	Rina DECHTER, "Bucket Elimination: A Unifying Framework for Probabilistic Inference", Uncertainty in Artificial Intelligence, 1996, pp. 211-219.			
АН	M. DEJORI et al., "Estimation of Oncogenes by Bayesian Inverse Mode ling of Gene-Expression Patterns", June-July 2003, printed 2/3/06 from www.iscb.org/ismb2003/posters/mathaeus.dejori.externalATmchp. siemens.de_109.html, 1 page.			

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
1454.1658
FIRST NAMED INVENTOR

Sheet 2 of 2
DRNEY DOCKET NO. APPLICATION NO.
54.1658 10/563,223

INFORMATION DISCLOSURE STATEMENT

Mathäus DEJORI

(Use several sheets if necessary)

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January 4, 2006

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*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	BA			•			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	TRANSLATION YES NO	ABSTRACT
ВВ					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)				
			YES	NO
	ВС	Dejori Mathäus, "Analyzing Gene-Expression Data with Bayesian Networks", Master Thesis, Technische Universtät Graz, June 2002; pp. 1-55.		
	BD	N. FRIEDMAN et al., "Using Bayesian Networks to Analyze Expression Data", Journal of Computational Biology, Vol. 7, Nos. 3/4, 2000, pp. 601-620.		
	BE	C. YOO et al., "Discovery of Causal Relationships in a Gene-Regulation Pathway From a Mixture of Experimental and Observational DNA Microarray Data", Proceedings of Pacific Symposium on Biocomputing, 2002, pp. 498-509.		
	BF	E.J. MOLER et al., "Analysis of Molecular Profile Data Using Generative and Discriminative Methods", Physiol Genomics, Vol. 4, 2000, pp.109-126.		:
	BG	H. TOH et al., "Inference of a Genetic Network by a Combined Approach of Cluster Analysis and Graphical Gaussian Modeling", Bioinformatics, Vol. 18, No. 2, 2002, pp. 287-297.		
	вн	OG et al, "A Bayesian Framework for Combining Heterogeneous Data Sources for Gene Function Prediction (in Saccharomyces cerevisiae)", Procedings of the National Academy of Science (USA), July 2003, Vol. 100, No. 14, pp. 8348-8353.		

EXAMINER	DATE CONSIDERED		
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EXPLANATIONS OF RELEVANCY OF REFERENCES

	ALIACHIVIENT 1(e)
ATTORNEY DOCKET NO.	APPLICATION NO.
1454.1658	10/563,223
FIRST NAMED INVENTOR	
Mathäus DEJORI	
FILING DATE	GROUPARTUNIT
January 4, 2006	

U.S. Publication No. 2003/0104463 A1 published June 5, 2003 (Reference AA) corresponds to German Patent Application No. DE 101 59 262 A1 published on June 18, 2003 (Reference AB).



ATTACHMENT 1(g)

LIST OF ADDITIONAL SUBMITTED DOCUMENTS

ATTORNEY DOCKET NO.	APPLICATION NO.
1454.1658	10/563,223
FIRST NAMED INVENTOR	
Mathäus DEJORI	
FILING DATE	GROUP ART UNIT
January 4, 2006	

The following document(s) is/are listed in accordance with the duty of disclosure provisions of 37 CFR § 1.56, so that the Examiner may consider same should he deem any thereof to be material to examination of the subject application.

It is requested that the Examiner acknowledge his consideration of document(s) below-listed by initialling same in the space provided adjacent each such application and that the Examiner sign and date this form at the bottom thereof to confirm such consideration having been given.

This submission in no way represents an admission that any of the information listed herein constitutes prior art with respect to the subject application; and unless and until such prior art status is established, this submission is not a request that the information presented herein be printed on the face of any patent issuing from the subject application in which this information is being filed.

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NO.	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						-
	AB						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSL YES	ATION NO
AC						-	
 AD							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)				ATION NO
	AE	International Search Report for International Application No. PCT/EP2004/051266, mailed April 6, 2005.	х	

EXAMINER	DATE CONSIDERED			
*EXAMINER: Initial if document considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.				